

## CLAIM AMENDMENTS

Please amend the claims as indicated herein:

1           1. (*currently amended*) A structural reflective insulating material comprising:  
2                   a first outer layer of metal foil;  
3                   an adhesive binding coating material on an inner side of said first outer  
4 layer of reflective foil;  
5                   at least a first layer of foam material secured to said first layer of said  
6 reflective foil;  
7                   at least one layer of mesh material sandwiched between at least said first  
8 layer of foam material and at least a second layer of foam material;  
9                   at least a second layer of foam material;  
10                  a coating or adhesive binding material between at least a second layer  
11 of foam material and at least a second inner layer of reflective foil; and  
12                  at least a second layer of reflective foil bound to at least a second layer  
13 of foam material by the adhesive binding material[.] ;  
14                  wherein the structural reflective insulating material is pliable so it is  
15 capable of being formed into ducts and other structural items.

1           2. (*original*) The structural reflective insulating material of claim 1 wherein  
2 at least one of said first outer and second inner layers of reflective foil is aluminum.

1           3. (*original*) The structural reflective insulating material of claim 1 wherein  
2 at least one of the first and second layers of foam material comprise polyethylene  
3 foam.

1        4.(original) The structural reflective insulating material of claim 2 wherein  
2        at least one of the first and second layers of foam material comprise polyethylene  
3        foam.

1        5.(original) The structural reflective insulating material of claim 1 wherein  
2        the coating of adhesive binding material is polyurethane.

1        6.(original) The structural reflective insulating material of claim 2 wherein  
2        the coating of adhesive binding material is polyurethane.

1        7.(original) The structural reflective insulating material of claim 3 wherein  
2        the coating of adhesive binding material is polyurethane.

1        8.(original) The structural reflective insulating material of claim 4 wherein  
2        the coating of adhesive binding material is polyurethane.

1        9.(currently amended) The structural reflective insulating material of claim  
2        1 wherein the mesh material is one from a group consisting of ~~and~~ aluminum or  
3        galvanized steel.

1        10.(currently amended) The structural reflective insulating material of claim  
2        2 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

1        11. *(currently amended)* The structural reflective insulating material of claim  
2        3 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

1        12. *(currently amended)* The structural reflective insulating material of claim  
2        4 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

1        13. *(currently amended)* The structural reflective insulating material of claim  
2        5 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

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1        14. *(currently amended)* The structural reflective insulating material of claim  
2        6 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

1        15. *(currently amended)* The structural reflective insulating material of claim  
2        7 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

1        16. *(currently amended)* The structural reflective insulating material of claim  
2        8 wherein the mesh material is one from a group consisting of aluminum of and  
3        galvanized steel.

1 17.(currently amended) A method of manufacturing a pliable structural  
2 reflective insulating material capable of being formed into ducts and other structural  
3 items comprising the steps of:

4 coating a first layer of reflective foil on one side with an adhesive  
5 binding material;

6 placing a first layer of foam material against the coating;

7 laying a mesh material on the first layer of foam material;

8 placing a second layer of foam material over the mesh material;

coating a second layer of reflective foil on one side with an  
adhesive binding material;

11 placing the second layer of reflective foil with the side coated  
12 with an adhesive binding material against the second layer of foam  
13 material; and

14 running the material through a heat press to bind all layers of  
15 material together to form an integral structural reflective insulating  
16 material.

1        **18.***(currently amended)* A method of making an air duct from a pliable  
2 structural reflective insulating material capable of being formed into ducts and other  
3 structural items comprised of a first outer layer of reflective foil; an adhesive  
4 binding coating material on an inner side of said first outer layer of reflective foil;  
5 at least a first layer of foam material secured to said first layer of said reflective foil;  
6 at least one layer of mesh material sandwiched between at least said first layer of  
7 foam material and at least a second layer of foam material; at least a second layer  
8 of foam material; a coating or adhesive binding material between the at least a  
9 second layer of foam material and the at least a second inner layer of reflective foil;  
10 and the at least a second inner layer of reflective foil, comprising the steps of;  
11                folding a piece of the structural reflective insulating material as  
12                many times as necessary so that ends of the piece form a channel; and  
13                securing the ends together by securing means to form a desired  
14                configuration.

1        **19.***(original)*        The method of forming the air duct in claim 18 wherein the  
2 securing means consists of metallic tape.

1        **20.***(original)*        The method of forming the air duct in claim 18 wherein the  
2 desired configuration is substantially rectangular.

1        **21.***(original)*        The method of forming the air duct in claim 18 wherein the  
2 desired configuration is substantially circular.

1        **22.(original)**        The method of forming the air duct of claim **21** wherein the  
2        securing means further comprises an inward curved hook on one end of the material  
3        and an outward curved hook on a second end, said curved hooks being  
interconnected to lock the duct in the substantially circular configuration.

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